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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,460	03/26/2004	Ajay R. Jain		9328
Ajay R. Jain	7590 07/06/200	7	EXAMINER .	
200 Western A			KIM, DAVID S	
Brattleboro, VT	05301-0221		ART UNIT .	PAPER NUMBER
		·	2613	
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			MAIL DATE	DELIVERY MODE
			07/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)					
	10/810,460	JAIN, AJAY R.					
Office Action Summary	Examiner	Art Unit					
·	David S. Kim	2613					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 26 Ma	arch 2004						
2a) ☐ This action is FINAL . 2b) ☐ This							
· —	· <u> </u>						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.	4) Claim(s) 1-24 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
	8) Claim(s) 1-24 are subject to restriction and/or election requirement.						
	·						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							
- aper recognition bate 0/ Other							

Art Unit: 2613

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species:

Species 1)

Figs. 5, 10-12, 18, 19

Species 2)

Fig. 13

Species 3)

Figs. 14-17

2. Species 1-3 are directed to related all optical dispersion compensators (AODCs). The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j).

In the instant case, each Species is implemented with a different structural design. In Species 1, dispersion compensation is performed by two pairs of filter means. A first optical signal is sent through a first polarization splitting device so that the output signals are two optical signals that travel along differing axes of polarization. A first pair of filter means processes these two optical signals that travel along differing axes of polarization. After processing by this first pair of filter means, the two optical signals are combined to form a second optical signal. This second optical signal is sent through a second polarization splitting device so that the output signals are two optical signals that travel along differing axes of polarization. A second pair of filter means processes these two optical signals that travel along differing axes of polarization. After processing by this second pair of filter means, the two optical signals are combined to form an output optical signal.

In Species 2, dispersion compensation is also performed by two pairs of filter means. However, a first pair of filter means processes optical signals that have not been split according to differing axes of polarization. A second pair of filter means does process optical signals that have been split according to differing axes of polarization. Unlike Species 1, chromatic dispersion and polarization mode dispersion are compensated in series, and not in parallel as in Species 1 (Applicant's specification, p. 17, last full paragraph).

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In Species 3, dispersion compensation is performed by one pair of filter means. A first optical signal is sent through a first polarization splitting device so that the output signals are two optical signals that travel along differing axes of polarization. The pair of filter means processes these two optical signals that travel along differing axes of polarization. After processing by the pair of filter means, the two optical signals are combined to form an output optical signal. The types of filter means in Species 3 are also different from the types of filter means in Species 1. Additionally, unlike Species 2, Species 3 employs only one pair of filter means.

As framed above, the species are distinct because:

- The disclosure suggests that each Species is mutually exclusive of the other Species. That is, use of one Species suggests not using the other Species at the same time.
- The Species are not obvious variants of each other.
- Each Species has a materially different design.
- 3. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, **claim 16** is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Kim whose telephone number is 571-272-3033. The examiner can normally be reached on Mon.-Fri. 9 AM to 5 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth N. Vanderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DSK

KENNETH VANDERPUYE
SUPERVISORY PATENT EXAMINER